

AEF/SSD/SBR/54/2019-20 DATED:-21/08/2019

CONTRACT CERTIFICATE

No. and Final Bill

(For Other Works)

Date.....

Division: BBMP, Dasarahalli

Sub-Division: Shettyhalli Sub Division

Bill Received No. 166/30/09/2019 Dated

Divisional

Cash Book Voucher No..... Dated.....

Sub Divisional

Schedule Docket No.

Head of Account:

Est. Cost: 200.00 Lakhs

D.R.No. :

Name of Work (as per sanctioned estimate) :	Drilling of Borewells and providing pump motor and other works in Abbigere, Chikkasandra, Shettyhalli, Medarahalli and KG Halli area in ward no.12 Shettyhalli Sub Division.
Name of Contractor and Full Address :	Sri R. Shivaram, No: 4-13, Avalamma Chatra Layout, Magadi main road, Bengaluru 560023
Reference to Agreement No	EE / DD / WO / 369 / 19-20 dated : 01.08.2019

Certified that the measurements were taken by me on 19/08/2019 and recorded in Pages 347030 to 347048

Of measurement Book No 3471/18-19 and that the work is satisfactorily executed.

Contractor

Officer-in-charge of work

Certified that the measurement were taken by me on 19/8/19 and found correct. The work is satisfactorily executed. Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

II Memorandum of Payment

Work Code: 012-19-000012 (P-code: P2573)

Sub-Division Officer

- 55) Total value of work done or supplies made as per account within
- 56) Deduct amount to be held in reserve being percent Rs.....
- 57) " Balance
- 58) Deduct Payment:
 - a. Amount of previous payment as in the Office Cash Book Voucher
No.....Dated.....S.D. No.....
towards cash advance recovery of
 - b. Payments cost store or other material supplied.
Now made recovery of amount creditable to this/other work
Amount paid on this bill Cheque / Cash.
- 59) Balance being unpaid value of work done held in reserve.
- 60) Deduct cash advance made on the Office cash Book Voucher No.....
dated.....less adjustments.
- 61) Net amount due to or from Contractor.....adjustments items.
- 62) Advance to Contractor for materials brought to site (as detailed) within.
- 63) Value of Government materials supplied.....

Total amount adjusted -

Contractor's Signature

Received Rs..... (in words).....

by cash and by adjustment of Payment as per memorandum

(in final settlement of all demands)

(For use in the Office)

Witness

1.

2.

Dated

Signature of Contractor

Paid by me by Cheque No.....Dated.....

Cash Rs.....

Dated.....

Initials of Officer making payment

Audited and admitted for Rs.....

Passed by Cheque for Rs.....

Stamp

Two Crore Twenty Lakhs Three Thousand three

by adjustment 818223 = 0

Executive Engineer

Exec. Engineer

B.B.M.P. Dasarahalli Division

SL No.	Description of Item
1	Geophysical investigation of site for sinking borewell for supplying drinking water to the habitation etc. through the hand pump, MWS or P.W.S.S. by vertical electrical sounding by adopting verner schlumbergers method, including reconnaissance survey of geological formation, Geological investigation of existing ground water in vicinity, its quality, quantity & acceptability of the users indicating the location of site, recommended depth of casing pipe required to seal the top unconsolidated formation including extra depth of 1.0 mtr in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site, engaging technical personal and labour required etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.
2	Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 500 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.
3	50.00 to 100.00 Mtr.
4	100.00 to 150.00 Mtr.
5	150.00 to 200.00 Mtr.
6	200.00 to 250.00 Mtr.
7	250.00 to 300.00 Mtr.
8	300.00 to 350.00 Mtr.
9	350.00 mts and above
10	Supply of ISI Mark 175mm Nominal bore plain end steel Casing pipe- grade of steel Fee 410 of wall thickness 5.4 mm thick conforming to IS 1387/1933 and manufactured by basic open hearth electric basic oxygen process in random length of 5 to 7mtrs. Both ends threaded Conforming to IS 554/1985, One end fixed with a Socket Conforming to IS 4270:2001 and the other end with Screwed pipes. All pipes shall be reasonably free from defects. The tube shall be reasonably straight should be with ISI marking, weight 25.10kg/mtr. etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.
11	Providing and fixing 250mm dia PVC pipe etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.
12	Providing 175 mm dia MS Cap complete as per specifications and as per the direction of Engineer-in-charge of the work.
13	Providing 175 mm dia MS Collar complete as per specifications and as per the direction of Engineer-in-charge of the work.
14	Supply & delivery at site brand new texmo/innova/lubi/sabar /Atalanta/calamal/ waterman/Radian make suitable HP deep well submersible pumpset suitable for vertical installation in 150 dia borewell compressing of single stage or multistage CF pump close coupled by means of stainless steel coupling suitable HP suitable speed totally enclosed and filled with pure drinking water squirrel cage submersible induction motor suitable for operation of 3Ph, 50Hz.380/440 volts AC supply fitted with required accessories such as suction, casing, suction strainers, sand guard. Non return valve etc. Complete the pump and motor shall from an integral unit with all the required fittings 15.000. HP 25 stage etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.
15	Supplying and drawing 3 core PVC Sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor conforming to table 3 class 5 of IS: 8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 volts 4 sqmm of 56 strands 0.3mm dia etc. complete as per specifications and as per the direction of Engineer-in-charge of the work.

Unit	Previous		Present Measurements			Total up to date	
	Qty	Amount	Qty	Rate	Amount	Qty	Amount
Each	-	-	16.00	2151.69	34427.05	16.00	34427.05
Rmt	-	-	800.00	349.85	279879.84	800.00	279879.84
Rmt	-	-	800.00	457.32	365856.00	800.00	365856.00
Rmt	-	-	800.00	508.38	406704.00	800.00	406704.00
Rmt	-	-	800.00	537.35	429880.80	800.00	429880.80
Rmt	-	-	800.00	621.96	497564.16	800.00	497564.16
Rmt	-	-	800.00	666.54	533233.12	800.00	533233.12
Rmt	-	-	800.00	711.13	568906.08	800.00	568906.08
Rmt	-	-	400.00	752.29	300916.56	400.00	300916.56
Rmt	-	-	1200.00	1470.75	1764900.00	1200.00	1764900.00
Rmt	-	-	480.00	1221.00	586080.00	480.00	586080.00
Each	-	-	16.00	111.00	1776.00	16.00	1776.00
Each	-	-	128.00	166.50	21312.00	128.00	21312.00
No	-	-	21.00	74711.75	1568946.68	21.00	1568946.68
Mtr	-	-	13040.00	209.46	2731319.28	13040.00	2731319.28

16	Labour charges for erection of new / repaired submersible pumpset along with GI pipes (32/50mm) cable (new submersible pumpset if required will be supplied by the department free of cost and released by the department should be handed over to department) including transportation etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.
17	Supplying & delivery of brand new best make non return valve of size 50mm as per IS: 778/84 with latest amendments with ISI mark (50mm Gate wheel Valve etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.
18	Supplying and fixing of 50mm GI union etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.
19	Supplying and fixing of 50mm GI Elbow etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.
20	Supplying and fixing 50mm GI Nipple etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.
21	Supplying & delivery at site brand new / Essen / Lotus sunsines/Adarsh/ Gk controls best indigenous make combine energy meter-cum-control panel board unit of size 1200 x 600 x 300 mm minimum mechanically strong and vermin and water proof the unit shall have two detachable doors suitable for operation on 3ph, 50Hz, 380/440 volts, AC supply with spring loaded latch locking with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided the combine energy meter cum control panel board unit suitable for operation on 3ph, 50Hz, 380/440 AC supply shall be consisted etc., completed T panel board shall be fabricated on single unit in the above components panel board for suitable pumpset above components panel board for suitable pumpset above 6.50 HP to 15.00 HP with star delta starter (MR) etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.
22	Providing, laying & jointing GI pipes conforming to IS specification of approved make with fittings such as collars bends elbows tees nipples plugs with cuts threads using white lead & threads for joints wherever necessary as per direction including all lead & lift etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.
23	Providing 50mm dia GI collars etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.
24	Erection of combined panel board and meter unit with necessary materials and labour including providing Cement concrete foundation bed concrete door type etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.
25	Supplying of TPST with rewirable porcelain channels in SM enclosure made out of 14 SWG powder coated paint of approved colour 32 apms Group A etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.
26	Supplying and fixing 20x20x2.5 polished wood board made up not less than 15cm thick plank with front plank one end provided for holding at other end fixing the same of the valve using through bolts and nuts etc., etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.
27	Supplying and fixing LED type panel board indicating lamp with required colour suitable for 220 V AC 50 HZ 12/24 V DC etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.
28	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100v grade multistrand copper conductor single core wire in open or concealed system of wiring as per IS 694:1990 and conforming to the attached GTP of Groups A 4sqmm etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.
29	Fixing a shunt capacitor upto 5 KVAR capacity with necessary clamps, bolts and nuts on existing wooden or metal board including banking of more than one capacitor etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.
30	Supplying and fixing regular MCB distribution boards on wall/ wood / flush mounting using required clamps, bolts, nuts with provision for fixing suitable type capacity MCB's single phase/3phase /single door with powder coated painting made out of 14 SWG MS enclosure 12 way SP & N etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.

Per Length	-	-	1025.00	100.61	103125.16	1025.00	103125.16
Nos	-	-	21.00	2117.88	44475.48	21.00	44475.48
Nos	-	-	42.00	248.31	10428.89	42.00	10428.89
Nos	-	-	21.00	135.42	2843.82	21.00	2843.82
Nos	-	-	42.00	115.77	4862.47	42.00	4862.47
Nos	-	-	21.00	11100.00	233100.00	21.00	233100.00
Rmt	-	-	6150.00	488.29	3002977.35	6150.00	3002977.35
Each	-	-	1000.00	211.79	211788.00	1000.00	211788.00
Nos	-	-	21.00	471.75	9906.75	21.00	9906.75
Nos	-	-	16.00	2073.48	33175.68	16.00	33175.68
Nos	-	-	16.00	335.22	5363.52	16.00	5363.52
Nos	-	-	21.00	477.30	10023.30	21.00	10023.30
Mts	-	-	560.00	46.73	26169.08	560.00	26169.08
Each	-	-	48.00	133.20	6393.60	48.00	6393.60
Nos	-	-	16.00	1162.17	18594.72	16.00	18594.72

31	Supplying, fixing, wiring earth electrode for grounding conduits, LC cutouts and other equipments on the meter board using 40mm dia 2.90mm thick GI pipe 2.50m long buried in a pit. The pit should be filled with equal proportion of soil and charcoal 150mm around the pipe to complete depth. the connection from the pipe to the conduct etc., is to be established through GI wire of size as per ISI specifications 7.3.3 IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122mm dia complete as per specifications and as per the direction of Engineer-in-charge of the work.
32	Supplying fully automatic star delta starter unit push button type with suitable wire 3 contractors and adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 volts phase and wired after fixing to the existing wooden board for motor Group A, II above 15 HP up to 25 HP complete as per specifications and as per the direction of Engineer-in-charge of the work.
33	Supplying and fixing Class-A (Medium duty) GI pipe wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class 65mm complete as per specifications and as per the direction of Engineer-in-charge of the work.
34	Supplying and laying of L.T.U.G Cable having aluminiumconductor PVC insulated shethed galvanised steel wire/ steel tape armoured cable with PVC outer sheathing 1.1 KV class 4 core 16 sqmm cable (confirming to IS 1554) etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.
35	Labour charges for laying of 1.1 KV class UG cable 6 sqmm to 16 sqmm etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.
36	Digging of trenches of 0.6mm x 0.50 Mtrs wide refilling the trench to the required ground level and consolidating etc., Complete sutting road surfaces etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.
37	Supply and fixing LT cast iron pot heads suitable for 1.1 KV class 16 sqmmUG cable filled with necessary bitumen/ insulating compound complete with terminals, clamps, bolts nuts and washers etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.
38	Supplying and fixing porcelain fuse channel with cut out on the existing wooden balock and wiring complete 32 amps etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.
39	Providing and fixing in position brass gate valve with CI wheel of approved quality (screwed end) 65mm nominal bore including cost of all materials, labour and HOM of equipments with al leads etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.
40	Cutting the road surface for pipe line trenches and disposing of the excavated stuff as directed including barricading danger lighting etc., etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.
41	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.
42	Providing and installing at site of work PVC pipes including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encsing the pipe around to a depth not less than 15cms with gravel or selected earth available from the excavation etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.
43	Providing and fixing in trenches galvanised /mild steel tubes (medium grade) 50mm dia niminal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all material, labour charges, HOM of equipments and testing etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.
44	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.

Nos	-	-	16.00	3026.97	48431.52	16.00	48431.52
Each	-	-	21.00	9183.03	192843.63	21.00	192843.63
Mtr	-	-	96.00	649.35	62337.60	96.00	62337.60
Mtr	-	-	560.00	183.82	102936.96	560.00	102936.96
Mts	-	-	640.00	11.99	7672.32	640.00	7672.32
Mtr	-	-	640.00	117.66	75302.40	640.00	75302.40
Each	-	-	16.00	310.80	4972.80	16.00	4972.80
Nos	-	-	48.00	199.80	9590.40	48.00	9590.40
Nos	-	-	90.00	2474.39	222695.08	90.00	222695.08
Cum	-	-	432.00	400.04	172819.01	432.00	172819.01
Cum	-	-	4191.15	350.74	1469994.73	4191.15	1469994.73
Mts	-	-	9895.00	192.07	1900576.19	9895.00	1900576.19
Mtr	-	-	350.00	456.52	159782.08	350.00	159782.08
Cum	-	-	3143.36	142.37	447515.76	3143.36	447515.76

45	Conveying the excavated earth silt, debris and over burden earth etc., to lead of 10kms distance by using private vehicle this included the cost of loading and unloading charges etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.

Certificate

- 1 Certified that the contractor has work done satisfactorily.
- 2 The contractor has removed the debris from work site.
- 3 There is no any dept. materials issued to contractor

[Signature]
Assistant Engineer
Ward No 12/ Shettyhalli

Cum	-	-	1047.79	113.14	118549.37	1047.79	118549.37
Total Rs					18810952.22		18810952.22
GST 12%					2257314.27		2257314.27
Grand Total					21068266.49		21068266.49

[Signature]
Assistant Executive Engineer
Shettyhalli Sub Division
BBMP, Bangalore

18810963 = ∞
2257315 = ∞
21068278 = ∞
18810963 = ∞
2257315 = ∞
21068278 = ∞
21057226 = ∞

certified as per work order →